SIEMENS

Data sheet

3RU2136-4BB0



Overload relay 14...20 A Thermal For motor protection Size S2, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

product brand name	SIRIUS
product designation	thermal overload relay
product type designation	3RU2
General technical data	
size of overload relay	S2
size of contactor can be combined company-specific	S2
power loss [W] for rated value of the current at AC in hot operating state	10.5 W
• per pole	3.5 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation in networks with grounded star point	
 between auxiliary and auxiliary circuit 	415 V
 between auxiliary and auxiliary circuit 	415 V
 between main and auxiliary circuit 	690 V
 between main and auxiliary circuit 	690 V
shock resistance according to IEC 60068-2-27	8g / 11 ms
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 98 ATEX G 001
reference code according to IEC 81346-2	F
Substance Prohibitance (Date)	10/15/2014
SVHC substance name	Blei - 7439-92-1
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-40 +70 °C
 during storage 	-55 +80 °C
during transport	-55 +80 °C
temperature compensation	-40 +60 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	14 20 A
operating voltage	
rated value	690 V
 at AC-3e rated value maximum 	690 V
operating frequency rated value	50 60 Hz
operational current rated value	20 A
operational current at AC-3e at 400 V rated value	20 A

operating power	
• at AC-3	
— at 400 V rated value	7.5 kW
— at 500 V rated value	11 kW
— at 690 V rated value	15 kW
• at AC-3e	
— at 400 V rated value	7.5 kW
— at 500 V rated value	11 kW
— at 690 V rated value	15 kW
Auxiliary circuit	
design of the auxiliary switch	integrated
	integrated
number of NC contacts for auxiliary contacts	
note	for contactor disconnection
number of NO contacts for auxiliary contacts	1
• note	for message "Tripped"
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	3 A
• at 110 V	3 A
• at 120 V	3 A
• at 125 V	3 A
• at 230 V	2 A
• at 400 V	1 A
• at 690 V	0.75 A
operational current of auxiliary contacts at DC-13	
• at 24 V	2 A
• at 60 V	0.3 A
• at 110 V	0.22 A
• at 125 V	0.22 A
• at 220 V	0.11 A
design of the miniature circuit breaker for short-circuit protection	6A (SCC less than equal to 0.5 kA; U less than equal to 260V)
of the auxiliary switch required	DC00 / D000
contact rating of auxiliary contacts according to UL	B600 / R300
Protective and monitoring functions	
trip class	CLASS 10
design of the overload release	thermal
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	20 A
• at 600 V rated value	20 A
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the auxiliary switch required 	fuse gG: 6 A, quick: 10 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	Contactor mounting
height	90 mm
width	55 mm
depth	105 mm
Connections/ Terminals	
product component removable terminal for auxiliary and	No
control circuit	
type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control circuit	screw-type terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	
type of connectable conductor cross-sections	
for main contacts	
— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)
 finely stranded with core end processing 	2x (1 25 mm ²), 1x (1 35 mm ²)
may such and that only one proceeding	

			2x (18	2), 1x (18 1)			
 for AWG cables for main cont 	ntacts						
ype of connectable conductor cr	ross-sections						
 for auxiliary contacts 							
- solid or stranded			2x (0.5 .	1.5 mm²), 2x (0.7	75 2.5 mm	1 ²)	
 — finely stranded with core end processing 		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)					
for AWG cables for auxiliary contacts		2x (20 16), 2x (18 14)					
ghtening torque							
 for main contacts with screw- 	-type terminals		3 4.5	N∙m			
for auxiliary contacts with screw-type terminals		0.8 1.2 N·m					
lesign of screwdriver shaft size of the screwdriver tip		Diameter 5 6 mm					
		Pozidriv	PZ 2				
esign of the thread of the conne	ection screw						
for main contacts			M6				
 of the auxiliary and control contacts 		M3					
EC 61508							
1 value for proof test interval or service life according to EC 61508			20 a				
lectrical Safety							
rotection class IP on the front a	ccording to IE	C 60529	IP20				
ouch protection on the front acc	ording to IEC	60529	finger-sa	afe, for vertical con	tact from the	front	
splay							
isplay version for switching status			Slide sw	vitch			
provals Certificates General Product Approval	E.	())	Confirmation		(L)	EAC
General Product Approval	E -Konf.	CCC)	Confirmation		U) u	EAC
General Product Approval	E -Konf.	CCC Test Certificat)	Confirmation	Marir	UL UL	EAC
General Product Approval	-Konf. CEX	Test Certificate Special Test Ce ate		Confirmation Confirmation Type Test Certific ates/Test Report	_	UL UL Ne / Shipping	
General Product Approval	<u>CE×</u>	Special Test Ce		Type Test Certific	_	UL te / Shipping	Conter
General Product Approval General Product A	<u>CE×</u>	Special Test Ce		Type Test Certific	_	UL DE DE DE DE DE DE DE DE DE DE	Confirmation
General Product Approval General Product A	CEx EXEX	Special Test Ce		Type Test Certific	_	UL te / Shipping ABS	

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2136-4BB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4BB0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

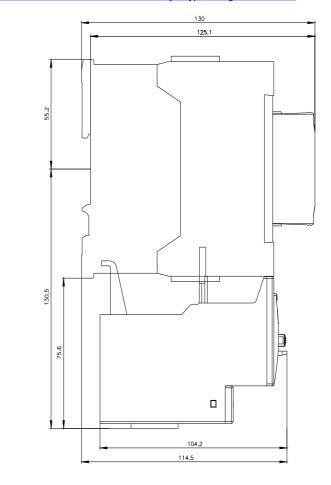
https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4BB0

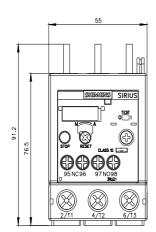
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4BB0&lang=en

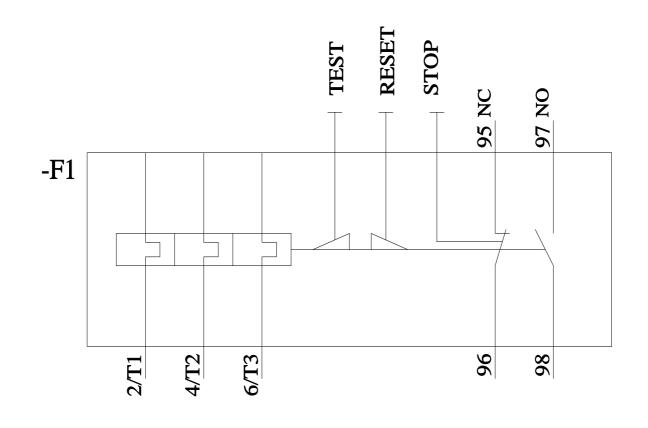
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4BB0/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4BB0&objecttype=14&gridview=view1







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